

# Fanless Box-PC 2020

## PKBX5402



The Fanless Box-PC 2020, with Intel® Atom™ N270 1.6GHz CPU on board, provides robust performance per watt which is the best for cost effective embedded solution. An energy efficient solution in a compact system, the Fanless Box-PC 2020 offers great flexibility to communicate with client devices accommodated various power supply requirements in dynamic vertical markets, range from 16 to 30VDC input. Coupled with its four serial ports (two support RS422/485 with auto

flow control feature), dual 10/100/1.000 LAN ports, four USB ports, one printer port and one external CF socket, the Fanless Box-PC 2020 is also equipped with two PCI slot and one Mini-PCIe Socket for optional expansion needs. Benefits from less than 25 watts power consumption, the Fanless Box-PC 2020 is an ideal model for embedded vertical markets, such as industrial automation, machinery control, message board controller, VoIP, low power-budget devices, and self-service system.



### Main Features

- On-board Intel® Atom™ N270 processor 1.6GHz
- Intel 945GSE chipsets
- Dual 1.000/100/10 Mbps LAN ports
- 4x USB2.0/VGA/parallel port
- 2x RS232 and 2x RS232/422/485
- On-board DC to DC power design to support 16 to 30VDC input
- Support ATX power mode and PXE/WOL
- One MiniPCIe socket
- Two PCI expansion slots

### Technical Specifications

#### Main Board and Chipset

- Main Board: On-board Intel® Atom™ N270, 1.6GHz , 533MHz FSB
- Intel® 945GSE and Intel® ICH7M

#### Main Memory

- 1x DDR2 SO-DIMM sockets, single channel, support up to 2GB DDR2 400/533 SDRAM, unbuffered, non-ECC

#### Expansion

- Supports two 32-bit/33MHz PCI card (10W power consumption max./slot)
- PCI Length support: Max. 176 mm
- One Mini-PCIe Socket

#### I/O Interface-Front

- ATX Power on/off switch
- HDD Access/Power status LEDs
- 2x USB2.0 ports, 1x parallel port
- 4x serial port (COM3 and COM4 screw terminal support RS232/422/485)

#### I/O Interface-Rear

- 16 to 30VDC input
- 1x PS/2 Keyboard/Mouse, 2x USB2.0 ports
- 1x DB15 VGA connector
- 2x Gbe LAN ports, 1x Speaker out
- One antenna hole for optional Mini-PCIe WiFi module

#### Storage

- 1x 2.5" SATA HDD drive bay
- One external CF socket
- Support one optional USB DOM (2.54mm, Horizontal type)

#### Power Requirements

- ATX Power mode
- Onboard DC to DC power design, support from 16 to 30VDC input
- Optional 19V 65W or 120W AC/DC power adapter

#### Dimensions and Constructions

- Dimensions: 195 x 200 x 108 mm (W x D x H)
- Construction: Aluminum chassis with fanless design

#### Environment

- Operating temperature: Ambient with air flow: -5°C to 55°C (According to IEC60068-2-1, IEC60068-2-2, IEC60068-2-14)
- Storage temperature: -20°C to 80°C
- Relative humidity: 10% to 93% (non-condensing)

#### Certifications

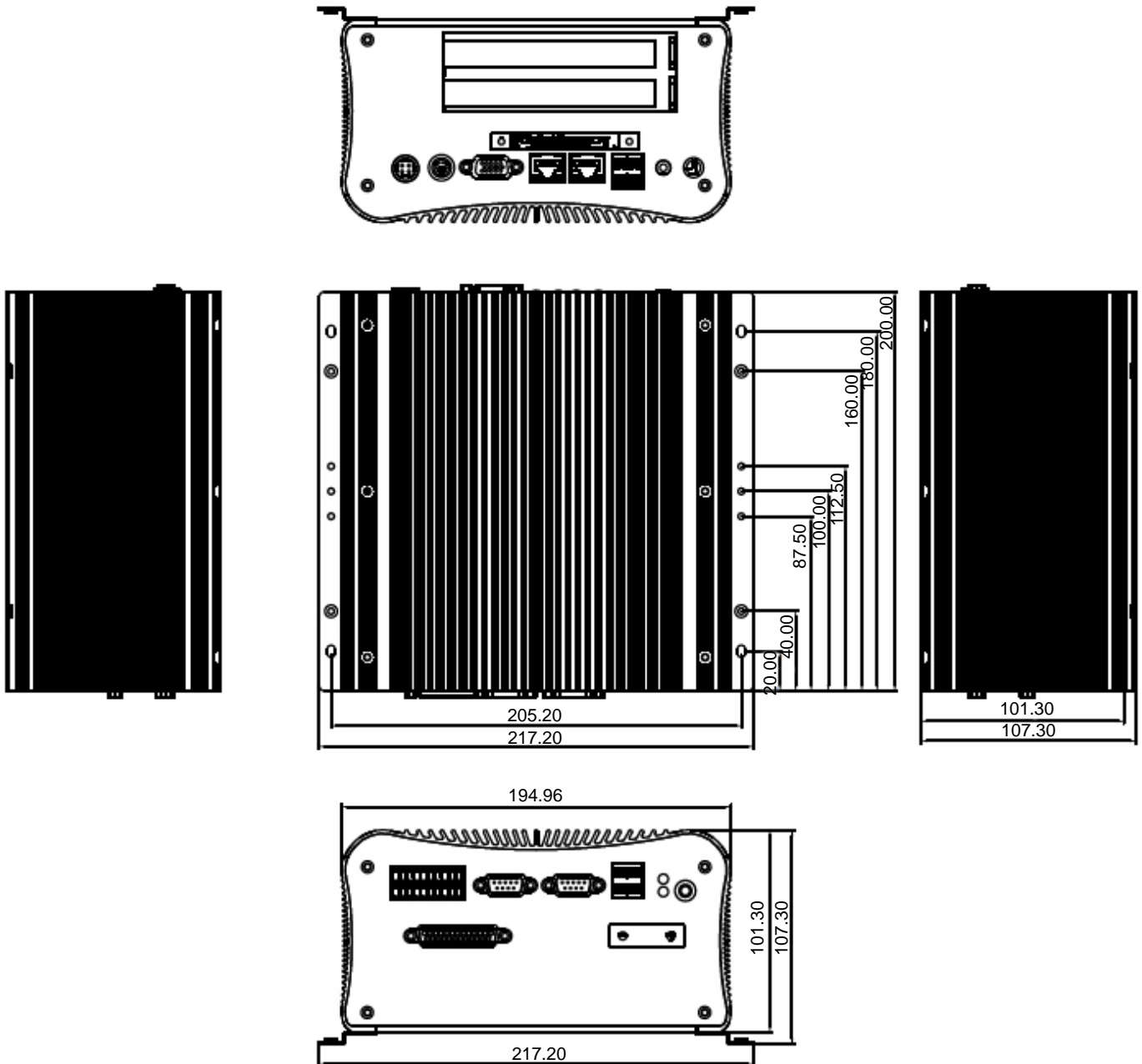
- CE approval
- FCC Class A

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### Dimension Drawing



### Ordering Information

PKBX5402 Fanless Box-PC 2020-270  
Intel Atom N270 1.6GHz, MiniPCIe Socket, 2x PCI